

~~10/528,700~~

10/529,781

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NEWS 5 MAR 22 LWPI reloaded
NEWS 6 MAR 30 RDISCLOSURE reloaded with enhancements
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NEWS 8 APR 30 GENBANK reloaded and enhanced with Genome Project ID field
NEWS 9 APR 30 CHEMCATS enhanced with 1.2 million new records
NEWS 10 APR 30 CA/CAPplus enhanced with 1870-1889 U.S. patent records
NEWS 11 APR 30 INPADOC replaced by INPADOCDB on STN
NEWS 12 MAY 01 New CAS web site launched
NEWS 13 MAY 08 CA/CAPplus Indian patent publication number format defined
NEWS 14 MAY 14 RDISCLOSURE on STN Easy enhanced with new search and
display fields
NEWS 15 MAY 21 BIOSIS reloaded and enhanced with archival data
NEWS 16 MAY 21 TOXCENTER enhanced with BIOSIS reload
NEWS 17 MAY 21 CA/CAPplus enhanced with additional kind codes for German
patents
NEWS 18 MAY 22 CA/CAPplus enhanced with IPC reclassification in Japanese
patents
NEWS 19 JUN 27 CA/CAPplus enhanced with pre-1967 CAS Registry Numbers
NEWS 20 JUN 29 STN Viewer now available
NEWS 21 JUN 29 STN Express, Version 8.2, now available

NEWS EXPRESS 29 JUNE 2007: CURRENT WINDOWS VERSION IS V8.2,
CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 4 MAY 2007.

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Enter NEWS followed by the item number or name to see news on that specific topic.

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COST IN U.S. DOLLARS

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TOTAL

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SESSION

FULL ESTIMATED COST

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0.21

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STRUCTURE FILE UPDATES: 28 JUN 2007 HIGHEST RN 940062-32-8

DICTIONARY FILE UPDATES: 28 JUN 2007 HIGHEST RN 940062-32-8

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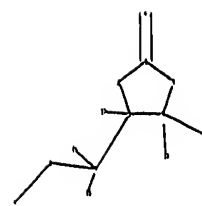
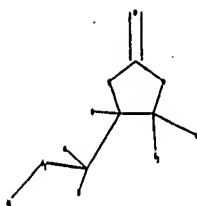
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<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

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10/528,700



chain nodes :
6 7 8 9 12 13 15 16 17
ring nodes :
1 2 3 4 5
chain bonds :
1-7 1-17 3-6 5-12 5-13 7-8 7-15 7-16 8-9
ring bonds :
1-2 1-5 2-3 3-4 4-5
exact/norm bonds :
3-6 5-12 5-13 7-8 8-9
exact bonds :
1-2 1-5 1-7 1-17 2-3 3-4 4-5 7-15 7-16
isolated ring systems :
containing 1 :

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G1:O,S,N

G2:H,Ak

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 9:CLASS
12:CLASS 13:CLASS 15:CLASS 16:CLASS 17:CLASS

L1 STRUCTURE UPLOADED

=> s l1 ful

FULL SEARCH INITIATED 19:58:56 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 4153 TO ITERATE

100.0% PROCESSED 4153 ITERATIONS

1101 ANSWERS

SEARCH TIME: 00.00.01

L2 1101 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

172.10

172.31

FILE 'CAPLUS' ENTERED AT 19:59:06 ON 29 JUN 2007

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10/528,700

=> s 12 and py<2002

661 L2

21897432 PY<2002

L3

487 L2 AND PY<2002

=> s 13 and surfactant

192448 SURFACTANT

172493 SURFACTANTS

244891 SURFACTANT

(SURFACTANT OR SURFACTANTS)

L4

5 L3 AND SURFACTANT

=> d 14 ibib hitstr abs 1-5

L4 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2001:785905 CAPLUS

DOCUMENT NUMBER: 135:332758

TITLE: Alkali- and biodegradable surfactants and emulsifiers

INVENTOR(S): Horibe, Mineko; Suzuki, Kaoru; Ogura, Eiji; Yamamoto,

Nobuyuki

PATENT ASSIGNEE(S): Lion Corp., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|------|----------|-----------------|----------|
| JP 2001300286 | A | 20011030 | JP 2000-118929 | 20000420 |

<--

| | | |
|------------------------|----------------|----------|
| PRIORITY APPLN. INFO.: | JP 2000-118929 | 20000420 |
|------------------------|----------------|----------|

OTHER SOURCE(S): MARPAT 135:332758

IT 85976-40-5P, 4-Butyloxymethyl-1,3-dioxolane-2-one

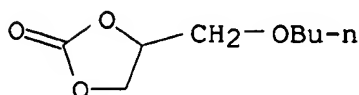
175540-36-0P, 4-Octyloxymethyl-1,3-dioxolane-2-one

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(alkali- and biodegradable dioxolanone derivs. for surfactants and emulsifiers for emulsion polymerization and cosmetics)

RN 85976-40-5 CAPLUS

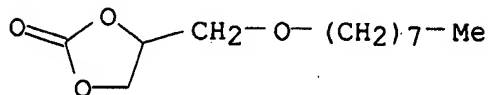
CN 1,3-Dioxolan-2-one, 4-(butoxymethyl)- (CA INDEX NAME)



10/528,700

RN 175540-36-0 CAPLUS

CN 1,3-Dioxolan-2-one, 4-[(octyloxy)methyl]- (9CI) (CA INDEX NAME)

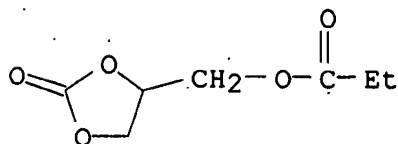


IT 125399-83-9 136322-51-5, 4-Decyloxymethyl-1,3-dioxolane-
2-one 199869-06-2 307949-17-3 370094-15-8
370094-16-9 370094-17-0 370094-18-1

RL: MOA (Modifier or additive use); USES (Uses)
(alkali- and biodegradable dioxolanone derivs. for surfactants
and emulsifiers for emulsion polymerization and cosmetics)

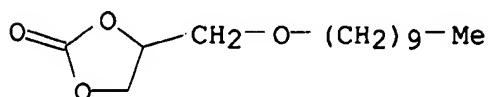
RN 125399-83-9 CAPLUS

CN 1,3-Dioxolan-2-one, 4-[(1-oxopropoxy)methyl]- (CA INDEX NAME)



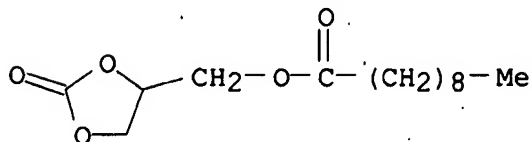
RN 136322-51-5 CAPLUS

CN 1,3-Dioxolan-2-one, 4-[(decyloxy)methyl]- (9CI) (CA INDEX NAME)



RN 199869-06-2 CAPLUS

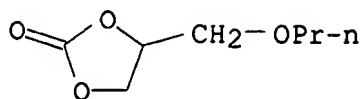
CN Decanoic acid, (2-oxo-1,3-dioxolan-4-yl)methyl ester (9CI) (CA INDEX NAME)



RN 307949-17-3 CAPLUS

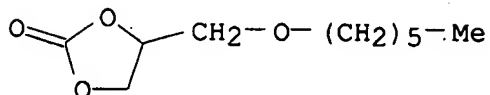
CN 1,3-Dioxolan-2-one, 4-(propoxymethyl)- (9CI) (CA INDEX NAME)

10/528,700



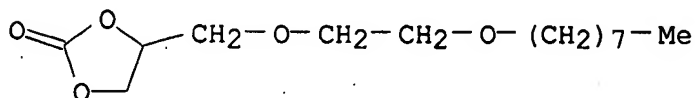
RN 370094-15-8 CAPLUS

CN 1,3-Dioxolan-2-one, 4-[(hexyloxy)methyl]- (9CI) (CA INDEX NAME)



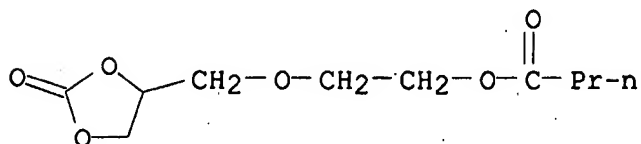
RN 370094-16-9 CAPLUS

CN 1,3-Dioxolan-2-one, 4-[[2-(octyloxy)ethoxy]methyl]- (9CI) (CA INDEX NAME)



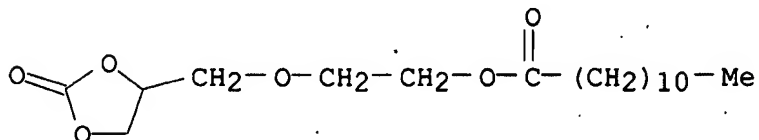
RN 370094-17-0 CAPLUS

CN Butanoic acid, 2-[(2-oxo-1,3-dioxolan-4-yl)methoxy]ethyl ester (9CI)
(CA INDEX NAME)



RN 370094-18-1 CAPLUS

CN Dodecanoic acid, 2-[(2-oxo-1,3-dioxolan-4-yl)methoxy]ethyl ester (9CI)
(CA INDEX NAME)

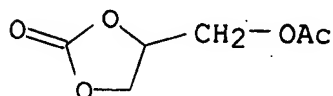


AB Derivs. of 1,3-dioxolane-2-one are prepared and used as emulsifiers in polymerization and cosmetics. Thus, glycerin 1-octyl ether 184, di-Me carbonate

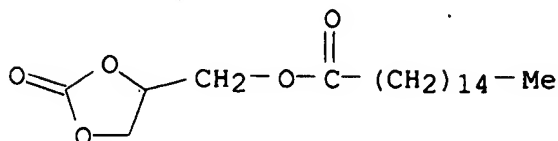
10/528,700

(I) 234, and NaOH 2.5 g were heated at 70°-120° with distillation of I and methanol to prepare 95% 4-octyloxymethyl-1,3-dioxolane-2-one.

L4 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2001:317626 CAPLUS
DOCUMENT NUMBER: 135:94230
TITLE: Study of the acyl transfer reaction: structure and properties of glycerol carbonate esters
AUTHOR(S): Mouloungui, Zephirin; Pelet, Sandrine
CORPORATE SOURCE: ENSIACET - Site Rengueil. Lab. Chim. Agro-Ind., INRA/INP-ENSIACET, Toulouse, 31077, Fr.
SOURCE: European Journal of Lipid Science and Technology (2001), 103(4), 216-222
CODEN: EJLTFM; ISSN: 1438-7697
PUBLISHER: Wiley-VCH Verlag GmbH
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 1607-31-4P 71572-28-6P 71572-29-7P
71628-84-7P 148843-55-4P 348113-24-6P
348113-25-7P
RL: IMF (Industrial manufacture); PRP (Properties); PREP (Preparation)
(preparation of glycerol carbonate esters via acyl transfer and thermal and oxidative stability and surface tension of ester surfactants)
RN 1607-31-4 CAPLUS
CN 1,3-Dioxolan-2-one, 4-[(acetyloxy)methyl]- (CA INDEX NAME)

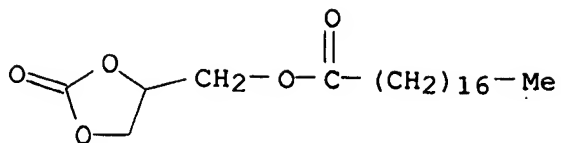


RN 71572-28-6 CAPLUS
CN Hexadecanoic acid, (2-oxo-1,3-dioxolan-4-yl)methyl ester (9CI) (CA INDEX NAME)



RN 71572-29-7 CAPLUS
CN Octadecanoic acid, (2-oxo-1,3-dioxolan-4-yl)methyl ester (9CI) (CA INDEX NAME)

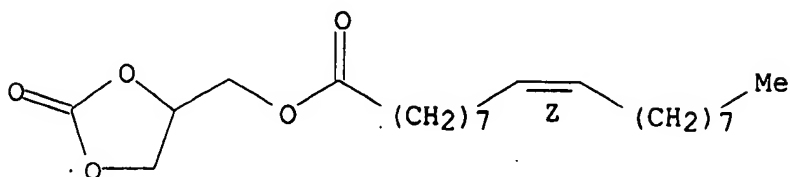
10/528,700



RN 71628-84-7 CAPLUS

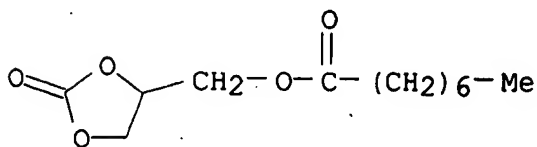
CN 9-Octadecenoic acid (9Z)-, (2-oxo-1,3-dioxolan-4-yl)methyl ester (9CI)
(CA INDEX NAME)

Double bond geometry as shown.



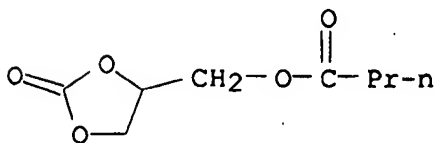
RN 148843-55-4 CAPLUS

CN Octanoic acid, (2-oxo-1,3-dioxolan-4-yl)methyl ester (9CI) (CA INDEX NAME)



RN 348113-24-6 CAPLUS

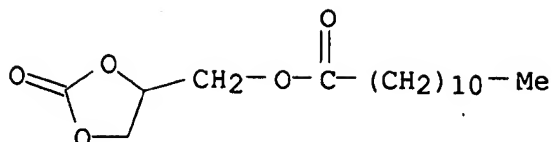
CN Butanoic acid, (2-oxo-1,3-dioxolan-4-yl)methyl ester (CA INDEX NAME)



RN 348113-25-7 CAPLUS

CN Dodecanoic acid, (2-oxo-1,3-dioxolan-4-yl)methyl ester (9CI) (CA INDEX NAME)

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AB A series of glycerol carbonate esters derived from glycerol carbonate was synthesized by acylation of glycerol carbonate in the presence of aliphatic acyl chlorides. The compds. are polyoxygenates with an endocyclic diester function and an exocyclic ester function. The compds. have good thermal and oxidation stability and exhibit surfactant properties towards water/soybean oil interface.

REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

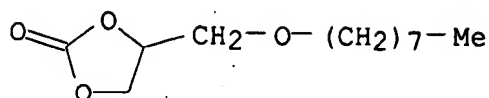
L4 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2001:290832 CAPLUS
DOCUMENT NUMBER: 134:311397
TITLE: Preparation of glyceryl ethers from glycidyl ethers
INVENTOR(S): Okutsu, Munenao; Kitsuki, Tomohito
PATENT ASSIGNEE(S): Kao Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|------|----------|-----------------|----------|
| JP 2001114719 | A | 20010424 | JP 1999-296816 | 19991019 |

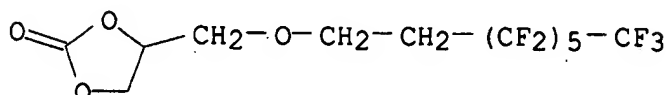
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PRIORITY APPLN. INFO.: JP 1999-296816 19991019

OTHER SOURCE(S): CASREACT 134:311397; MARPAT 134:311397
IT 175540-36-0P 334791-12-7P
RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation of glyceryl ethers from glycidyl ethers)
RN 175540-36-0 CAPLUS
CN 1,3-Dioxolan-2-one, 4-[(octyloxy)methyl]- (9CI) (CA INDEX NAME)

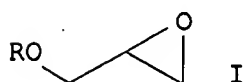
10/528,700



RN 334791-12-7 CAPLUS
CN 1,3-Dioxolan-2-one, 4-[(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)oxy]methyl- (9CI) (CA INDEX NAME)



GI



AB ROCH₂CH(OH)CH₂OH [R = C₄-20 linear or branched (partially or totally fluorinated) alkyl (or its adduct with alkylene oxide)] are prepared by treatment of glycidyl ethers I (R = same as above) with CO₂ and hydrolysis of the resulting glyceryl ether carbonates. Thus, 200 g octyl glycidyl ether was autoclaved with Alcamac L (hydrotalcite) at 50° and 5 MPa CO₂ for 12 h to give 220 g octyl glyceryl ether carbonate, which was hydrolyzed with NaOH in H₂O to afford 85% octyl glyceryl ether.

L4 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1991:561317 CAPLUS
DOCUMENT NUMBER: 115:161317
TITLE: Surfactant for emulsion coating materials
INVENTOR(S): Tashiro, Namiyuki; Yoshino, Fumio; Hosoda, Atsushi
PATENT ASSIGNEE(S): Dainippon Ink and Chemicals, Inc., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| JP 03065232 | A | 19910320 | JP 1989-202025 | 19890803 |
| PRIORITY APPLN. INFO.: | | | JP 1989-202025 | 19890803 |

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IT 136275-67-7P 136297-52-4P 136322-50-4P

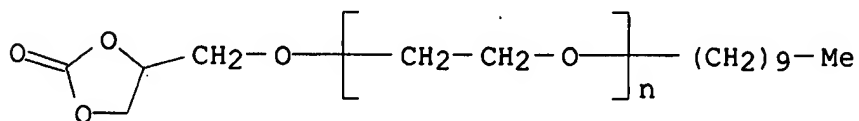
136322-51-5P 136322-52-6P

RL: PREP (Preparation)

(manufacture of, as emulsifier for polymerization)

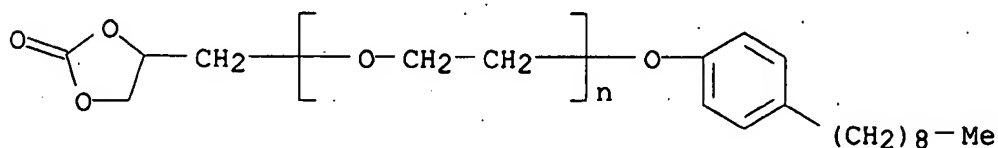
RN 136275-67-7 CAPLUS

CN Poly(oxy-1,2-ethanediyl), α -decyl- ω -[(2-oxo-1,3-dioxolan-4-yl)methoxy]- (9CI) (CA INDEX NAME)



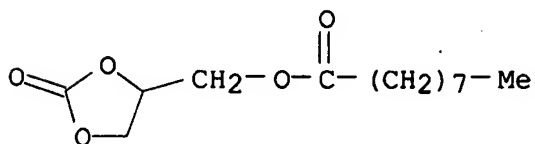
RN 136297-52-4 CAPLUS

CN Poly(oxy-1,2-ethanediyl), α -[(2-oxo-1,3-dioxolan-4-yl)methyl]- ω -(4-nonylphenoxy)- (9CI) (CA INDEX NAME)



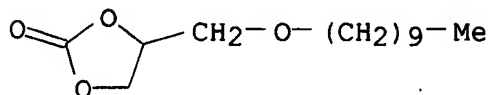
RN 136322-50-4 CAPLUS

CN Nonanoic acid, (2-oxo-1,3-dioxolan-4-yl)methyl ester (9CI) (CA INDEX NAME)



RN 136322-51-5 CAPLUS

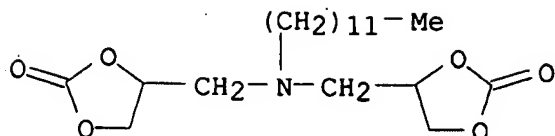
CN 1,3-Dioxolan-2-one, 4-[(decyloxy)methyl]- (9CI) (CA INDEX NAME)



RN 136322-52-6 CAPLUS

CN 1,3-Dioxolan-2-one, 4,4'-[(dodecylimino)bis(methylene)]bis- (9CI) (CA INDEX NAME)

10/528,700

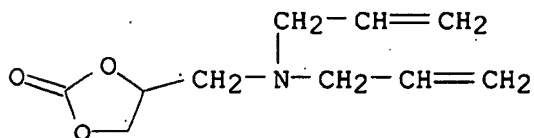


AB Surfactants containing hydrophilic cyclic carbonate groups are prepared as emulsifiers for polymerization. Thus, reaction of octanoic acid with epichlorohydrin and NaHCO_3 gave (2-oxo-1,3-dioxolan-4-yl)methyl octanoate, which was used in the emulsion polymerization of styrene, Bu acrylate, and methacrylic acid.

L4 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1986:207278 CAPLUS
 DOCUMENT NUMBER: 104:207278
 TITLE: [(Diallylamino)methyl]dioxolane analogs
 INVENTOR(S): Kawabata, Osamu; Tanimoto, Fumio; Inoe, Yoshiharu
 PATENT ASSIGNEE(S): Neos Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

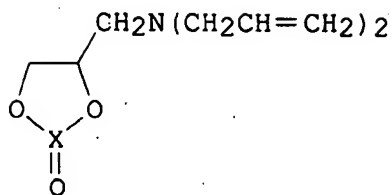
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| JP 60228472 | A | 19851113 | JP 1984-87395 | 19840427 |
| JP 04058476 | B | 19920917 | | |
| PRIORITY APPLN. INFO.: | | | JP 1984-87395 | 19840427 |

OTHER SOURCE(S): CASREACT 104:207278
 IT 102088-43-7P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 102088-43-7 CAPLUS
 CN 1,3-Dioxolan-2-one, 4-[(di-2-propenylamino)methyl]- (9CI) (CA INDEX NAME)



10/528,700

GI



AB Title compds. I (X = C, S), useful in manufacturing amphoteric surfactants and polymer coagulants, were prepared either by cyclocondensation of 3-(N,N-diallylamino)-1,2-propanediol [II, prepared from glycidol (III) and diallylamine (IV)] with di-Et carbonate (V) or dehydrochlorination of II with SOCl₂. Thus, heating 97.16 g IV with 74.08 g III in the presence of Triton B gave 154 g II, which was refluxed with 160 g V in the presence of K₂CO₃ to give 159.6 g I (X = C).

=> log y

| | | |
|--|------------------|---------------|
| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
| FULL ESTIMATED COST | 31.31 | 203.62 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
| CA SUBSCRIBER PRICE | -3.90 | -3.90 |

STN INTERNATIONAL LOGOFF AT 20:00:07 ON 29 JUN 2007